

copolymer (I) of an n-alkyl acrylate, the alkyl group having a carbon number ranging from 5 to 12, of a polyfunctional crosslinking agent possessing unsaturated groups in its molecule, at least one of which is a vinyl group and optionally of a polyfunctional grafting agent possessing unsaturated groups in its molecule, at least one of which is an allyl group,

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conclude
2) of more than 0 and not more than 80 % by weight, of a covering composed of a copolymer (II) of n-alkyl acrylate, the alkyl group of which has a carbon number ranging from 4 to 12, and a grafting agent possessing allyl groups, the said covering containing a molar amount of grafting agent ranging from 0.05 % to 2.5 %, said grafting agent having only allyl functional groups, all having the same reactivity and,

b) 30 % to 10 % by weight of a shell grafted onto the said core composed of a polymer of an alkyl methacrylate, the alkyl group of which has a carbon number ranging from 1 to 4, or alternatively of a statistical copolymer of an alkyl methacrylate, the alkyl group of which has a carbon number ranging from 1 to 4, and of an alkyl acrylate, the alkyl group of which has a carbon number ranging from 1 to 8, containing a molar amount of alkyl acrylate ranging from 5 % to 40 %, or alternatively composed of a styrene-acrylonitrile copolymer.

5. (Twice Amended) A composition according to Claim 1, characterized in that the crosslinking agent is chosen from derivatives possessing at least two vinyl double bonds of $\text{CH}_2=\text{C}<$.

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6. (Twice Amended) A composition according to Claim 1, characterized in that the crosslinking agent is chosen from derivatives possessing one or a number of vinyl double bonds and at least one allyl double bond of $\text{CH}_2=\text{CH}-\text{CH}_2-$.

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9. (Twice Amended) A composition according to Claim 1, characterized in that the grafting agent is chosen from derivatives possessing at least two allyl double bonds of $\text{CH}_2=\text{CH}-\text{CH}_2-$.

10. (Twice Amended) A composition according to Claim 1, characterized in that the grafting agent is chosen from derivatives possessing one or more allyl double bonds and at least one vinyl double bond.

SWB/IB/28. (Four times Amended) A thermoplastic polymer composition containing a core/shell impact additive composed of a core based on alkyl acrylate or on a polyorganosiloxane rubber and a shell based on poly(alkyl methacrylate) or on a styrene-acrylonitrile copolymer, said impact additive comprising from:

a) 70 % to 90 % by weight of a crosslinked elastomeric core which is composed;

1) of 20 % to less than 100 % by weight of a nucleus composed of a copolymer (I) of an n-alkyl acrylate, the alkyl group of which has a carbon number ranging from 5 to 12, of a polyfunctional crosslinking agent possessing unsaturated groups in its molecule, at least one of which is of a vinyl group, and optionally of a polyfunctional grafting agent possessing unsaturated groups in its molecule, at least one of which is an allyl group,

2) of an amount above 0%, but not more than 80 % by weight, of a covering composed of a copolymer (II) of n-alkyl acrylate, the alkyl group of which has a carbon number ranging from 4 to 12, and a grafting agent possessing allyl groups, the said covering containing a molar amount of grafting agent ranging from 0.05 % to 2.5 %, said grafting agent having only allyl functional groups, all having the same reactivity, and

b) 30 % to 10 % by weight of a shell grafted onto the said core composed of a polymer of an alkyl methacrylate, the alkyl group of which has a carbon number ranging from 1 to 4, or alternatively of a statistical copolymer of an alkyl methacrylate, the alkyl group of which has

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Circled
a carbon number ranging from 1 to 4, and of an alkyl acrylate, the alkyl group of which has a carbon number ranging from 1 to 8, containing a molar amount of alkyl acrylate ranging from 5 % to 40 %, or alternatively composed of a styrene-acrylonitrile copolymer.

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53. (Amended) A composition according to claim 49, characterized in that the crosslinking agent is chosen from derivatives possessing at least two vinyl double bonds of $\text{CH}_2=\text{C}<$.

54. (Amended) A composition according to claim 49, characterized in that the crosslinking agent is chosen from derivatives possessing one or a number of double bonds of vinyl type and at least one allyl double bond of $\text{CH}_2=\text{CH}-\text{CH}_2-$.
